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Soggetti	Computational intelligence Artificial intelligence Industrial engineering Production engineering Computational Intelligence Artificial Intelligence Industrial and Production Engineering
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Nota di contenuto	Connected Vehicle Prognostics Framework for Dynamic Systems -- Human-Computer Cloud for Decision Support: Main Ontological Models and Dynamic Resource Network Configuration -- Enterprise Total Agentication as a Way to Industry 4.0: Forming Artificial Societies via Goal-Resource Networks -- Context-Dependent Guided Tours: Approach and Technological Framework -- Retention to Describe Knowledge of Complex Character and its Formalization in Category Theory -- Proximity of Multi-Attribute Objects in Multiset Metric Spaces -- Evidence Theory for Complex Engineering System Analyses -- Analysis of software development process in respect to anomaly detection -- A Model of Multiagent Information and Control System Distributed Data Storage -- Representation and Use of Knowledge for the Reconfiguration of the Mechanical Transport System -- Synthesis Of Adaptive Algorithms For Estimating The Parameters Of Angular Position

Based On The Combined Maximum Principle -- Synthesis of intelligent discrete algorithms for estimation with model adaptation based on the combined maximum principle -- The approach to extracting semantic trees from texts to build an ontology from wiki-resources -- Ontology-based Semantic Models for Industrial IoT Components Representation -- An Approach To Optimization Of Ray-Tracing In Volume Visualization Based On Properties Of Volume Elements -- Discovering of Part-Whole Relations Used in Architectural Prototyping of Project Tasks -- Multi-level ontological model of Big Data processing -- Ontological Modeling for Industrial Enterprise Engineering -- Designing The Knowledge Base For The Intelligent Inertial Regulator Based On Quasi-optimal Synthesis Of Controls Using The Combined Maximum Principle -- Assessing the software developer's quality using fuzzy estimates -- A Fuzzy Control Method for Priority Driven Embedded Device -- Interpretability of fuzzy temporal models -- Control Of The Cognitive Process In Hard Real-time Environment In The Context Of The Expanded Stepping Theories Of Active Logic -- Method of the Maximum Dynamic Flow Finding in the Fuzzy Graph with Gains -- Hybrid bioinspired algorithm of 1.5 dimensional bin-packing.

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### Sommario/riassunto

This book contains papers presented in the main track of IITI 2018, the Third International Scientific Conference on Intelligent Information Technologies for Industry held in Sochi, Russia on September 17–21. The conference was jointly co-organized by Rostov State Transport University (Russia) and VŠB – Technical University of Ostrava (Czech Republic) with the participation of Russian Association for Artificial Intelligence (RAAI). IITI 2018 was devoted to practical models and industrial applications related to intelligent information systems. It was considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries. Nevertheless, some theoretical talks concerning the state-of-the-art in intelligent systems and soft computing were also included into proceedings.

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